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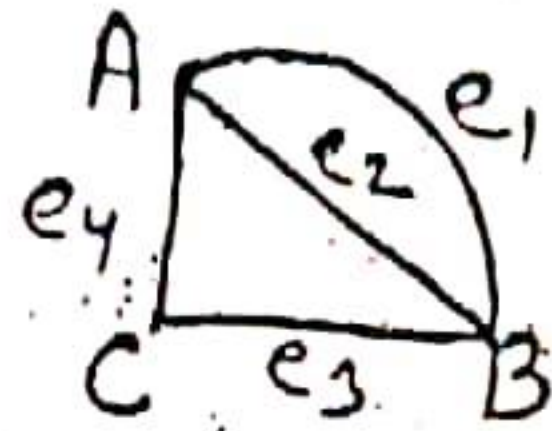
Graph

55) A graph $G(V, E)$ consists of a set of vertices $V = \{v_1, v_2, \dots\}$ and another set $E = \{e_1, e_2, e_3, \dots\}$ called edges.

Self-loop :- An edge having the same vertex as both its end vertices.

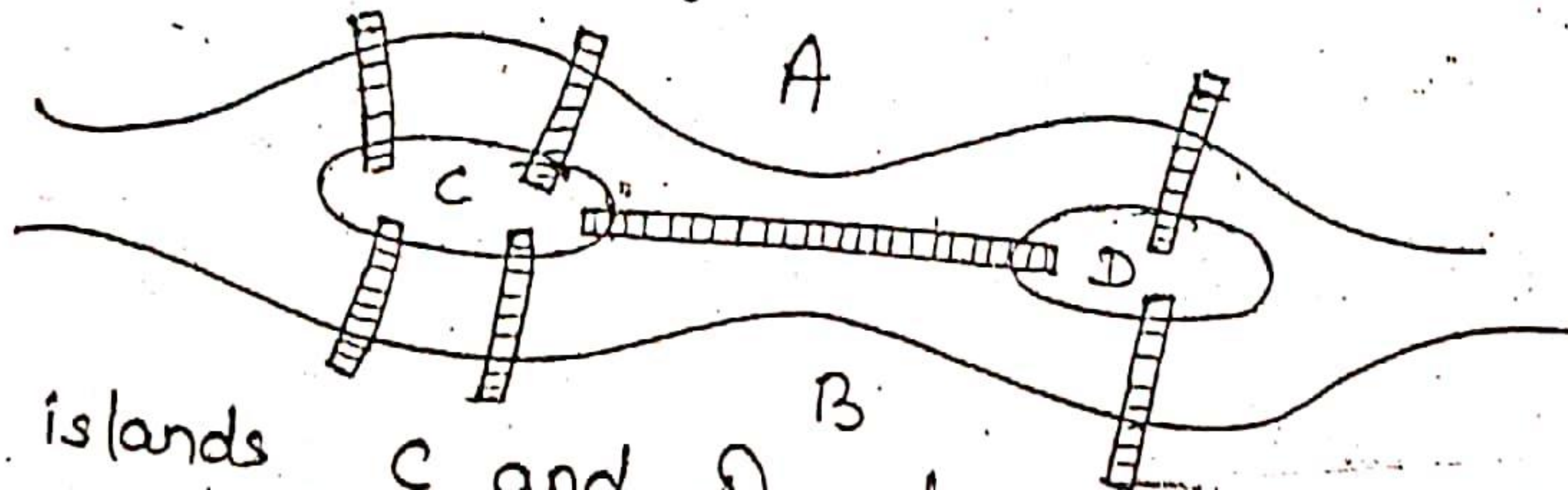
Parallel Edge or Multi-edge :- Two or more than two edges that have same terminal.

Ex: e_1 and e_2



Applications of Graphs

1. Königsberg Bridge Problem.



Two islands C and D